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## PLATE XIV.

## EXPLANATION OF FIGURES.

FIG. a. *Brasenia Schreberi* Gmel. Seedling illustrating habit of growth with thin aquatic submersed foliage and one quick floating leaf (W) when the seed germinates below the muddy bottom (BB<sup>1</sup>). Ep Elongated epicotyl. (S), Seed, (PR), Primary root. (W) Thick aërial leaf. The other habitats are similar to the following of Figs. (b), (c), and (d).

FIG. b. *Nuphar advena* (Soland) R. Br. Seedling showing aquatic and floating leaves, and habit of the preceding. Parts labelled as in Fig. a.

FIG. c. Same with seed germinating at the bottom on the mud but not buried. No elongated epicotyl developed.

FIG. d. Same showing diminution in size of aquatic foliage when growing in shallow water with stronger light.

FIG. e. Same with aërial thick foliage when growing in mud above the water line (WW<sup>1</sup>).

FIG. f. Same the seed germinating upon instead of below mud. Foliage as in the preceding (Fig. e); no aquatic leaves developed.

FIGS. 1-10. Variations in aquatic leaf shapes of seedlings of *Nymphaea tuberosa* Paine. The older leaves are broader with larger basal lobes.

All plants about  $\frac{1}{2}$  to  $\frac{1}{4}$  natural size. Drawing diagrammatic, the petioles of all naturally longer, particularly in case of floating foliage. Petioles of the air-exposed plants (Figs. e and f.) drawn in natural proportions. All plants drawn from herbarium specimens collected at Bankson and North Bankson Lakes in August, 1915.

## ENUMERANTUR PLANTAE DAKOTAE SEPTENTRIONALIS VASCULARES.—IV.

ENUMERAVIT J. LUNELL.

### The Vascular Plants of North Dakota.—IV.

With Notes by J. Lunell.

#### Sub-class 2. DICOTYLEDONEAE.

D. C. Syst. I., (1818), also Prodr. I., p. 1. (1814).

#### Order 16. SALICINAE.

Bartling, Ord. Nat. Pl. p. 118. (1830.)

Family 29. SALICINEAE L. Rich ex A. Rich. Nov. Ecl. Bot. ed. 4, p. 560. (1828), also Lindley, Nat. Syst. ed. 2, p. 186. (1836).

POPULUS Virgilius Ecl. IX. 41, Plinius XXIV, 8, Horatius, Carm. 11. 3.

302. *Populus tremuloides* Michx. Fl. Bor. Am. 2. 243. (1803).

No trees surpass or equal this in the tendency of forming natural groves whenever it has the slightest opportunity. No other tree seeds itself on the open prairie.

Leeds, Butte, Dunsieith; Kulm (Brenckle).

*AIGEIRO*S Homeros, Odyss. VII: 106, XVII: 208. Hesiodus, Scut. Herc. 377. Theophr. III: 14. Diosc. I: 144.

303. **Aigeiros deltoides** (Batr.) Tidestrom, Elysium Marianum II, p. 16. (1910).

*Populus deltoides* Batr.: Marsh, Arb. Am. p. 106. (1785).

Everywhere in cultivation, and, when indigenous, growing in such protected places as railroad ditches, ravines, etc. Leeds.

304. **Aigeiros Sargentii**.

*Populus Sargentii*.

A tree "easily recognized by the pubescent winter-buds and by the light yellow color of the branchlets." It ought to grow "especially in the western part of the state." (The citations are from a letter by Prof. C. S. Sargent.)

305. **Aigeiros balsamifera** (Linn.) Lunell.

*Populus balsamifera* Linn. Sp. Pl. 1034. (1753).

An indigenous tree. Turtle Mountains.

306. **Aigeiros candicans** (Ait.) Nwd. in Am. Midl. Nat. Vol. III, p. 223. (1914).

*Populus candicans* Ait. Hort. Kew. 3. p. 406. (1789).

Escaped from cultivation. Leeds.

*SALIX* Virgilius Ecl. II: 83, V: 16, X: 140, Georg. IV: 184, Culex 54. Plinius. Nat. Hist. XXI: 20.

307. **Salix vitellina** Plinius XVI: 37. Linn. Sp. Pl. ed. 2. 1442. (1763).

Cultivated like the following and often escaping. Leeds.

308. **Salix vitellina aurea**.

A variety widely used for hedges. Leeds.

309. **Salix amygdaloides** Anders Ofv. Sv. Vet. Akad. Förhandl. 15:114. (1858.)

Leeds, Minnewaukan.

310. **Salix lucida** Muhl. Neue Schrift. Ges. Nat. Fr. Berlin 4:239, p. 6, f. 7. (1803).

In the Willow Creek ravine near Dunsieith.

311. **Salix interior** Rowlee, Bull. Torr. Bot. Club, 27, p. 253. (1900).

*Salix longifolia* Muhl. l. c. 238. (1803), not Lam. (1778).

The most common willow in the state. Leeds, York.

312. *Salix linearifolia* Rydb. in Britt. Man. 316. (1901).

Sand hills near Willow City (Bottineau Co.).

313. *Salix bebbiana* Sargent, Gard. and For. 8:463. (1895).

*Salix rostrata* Richards. Frank. Journ. App. 753. (1823).

Not Thuill. (1799).

One form coming very near to *S. perrostrata* Rydb. was found by the writer in Benson Co. 1906, and deposited in the Herbarium of Harvard University.

Leeds, Butte.

314. *Salix humilis* Marsh. Arb. Am. 140. (1785).

Butte.

315. *Salix discolor* Muhl. l. c. 234, pl. 6, f. 1. (1803).

Butte.

316. *Salix petiolaris* J. E. Smith, Trans. Linn. Soc. 6, p. 122. (1803.)

Butte.

317. *Salix candidula* Nwd. in Am. Midl. Nat. Vol. III. p 225. (1914).

*Salix candida* Fluegge in Willd. Sp. Pl. 4, p. 708. (1806), not Plinius l. c. = *Salix vitellina*.

In boggy ravine, Butte. In deep gravel near Willow City, (Bottineau Co.).

318. *Salix candidula* x *petiolaris*.

Only one shrub in boggy ravine, Butte.

319. *Salix chlorophylla* Anderss. Ofv. Sv. Vet. Akad. Förhandl. Stockh. 6. 138. (1867).

Kulm (La Moure Co.). Perhaps my identification is incorrect.

320. *Salix cordata* Muhl. l. c. p. 236. p. 6, fl. 3. (1803).

Leeds, Butte, Peninsula of Lake Ibsen, Bismarck.

#### Order 17. AMENTACEAE.

(Ray, Boerhave) Gmelin, Fl. Sibir. I: 150. (1747); Juss. Gen. 407. (1789); Bartling, Ord. Nat. Pl. 96. (1830).

Family 30. **CORYLACEAE** Mirbell ex S. F. Gray, Nat. Arr. Br. Pl. II. p. 244. (1821), in part.

*OSTRYA* Plinius XIII: 21.

321. *Ostrya virginiana* (Mill.) Willd. Sp. Pl. 4:469. (1805)

*Carpinus virginiana* P. Miller, Gard. Dict. ed. 8. (1768).

Fargo, (Lee, O. A. Stevens).

*CORYLUS* Virgilius Ecl. I: 14, II: 3; Georg. II: 69 and 209, Plinius XVI: 18, Caesalpinus De Plantis 38. (1588). Tour. Els. 453. (1694). Linn. Syst. (1735).

322. *Corylus americana* Walter, Fl. Car. 236. (1788).  
Turtle Mountains in Bottineau Co.

323. *Corylus rostrata* Ait. Hort. Kew 3:364. (1789).  
Turtle Mountains: Dunsieith, St. John.

Family 31. **BETULACEAE** Agardh, Aphor. 208. (1825),  
also Bartling, Ord. Nat. Pl. p. 99. (1830).

*BETULLA* Plinius XVI: 30.

*Betula* Tragus. Matthioli, Dodonaeus, etc.

324. *Betulla papyrifera* Marsh. Arb. Am. 19. (1785), (cor.).  
Turtle Mountains: Dunsieith.

325. *Betulla papyrifera cordifolia* Fernald, (cor.).  
Pleasant Lake, Turtle Mountains.

*ALNUS* Plinius XVI: 24. Brunfels, Tragus, Tour. Els. 459. (1694), Duhamel, Arb. et Arbustes 41. (1755).

326. *Alnus incana* C. Bauhin ex. J. Bauhin, Hist. 6, p. 157. (1650).

Neché (H. L. Bolley).

Family 32. **GLANDIFERAE** Theodore Gaza, De Hist. et Causis Plantar. (1529), also Caesalpinus De Plantis p. 31. (1583).

*QUERCUS*<sup>2</sup> (Lucretius), Virgilius, Ecl. I: 17, IV: 30, VI: 13, Georg. I: 349, II: 16, III: 332, Culex, 132, Tour. Els. p. 454. (1694).

327. *Quercus macrocarpa* Michx. Hist. Chen. Am. 2:23. (1801).

Minot, Pleasant Lake, Turtle Mountains.

328. *Quercus macrocarpa depressa* Engelm.  
Dunsieith.

#### Order 18. URTICALES.

*Engl. Syllab. ed. I. p. 95. (1892).*

Family 33. **ULMACEAE** Mirbel, Écl. II:905. (1815).

*ULMUS* Virgilius, Ecl. II: 70, V:3, Georg. I:170, II:18, 72 222, IV: 144. Tour. Els. p. 473. (1694).

329. *Ulmus americana* Linn. Sp. Pl. 226. (1753).  
Towner, Turtle Mountains. In cultivation at Leeds.

*CELTIS* Plinius XIII: 17. Tour. Els. p. 485. (1694).

330. *Celtis crassifolia* Lam. Encycl. 4, 6, 138. (1797)  
Peninsula of Lake Ibsen; Logan Co. (Breckle).

Family 34. **CANNABINACEAE** Lindl. Veg. Kingd. 265. (1846).

*LUPULUS* J. de Manliis ex Brunfels Herb. Viv. Ic. 2: 169. (App.) (1531); Tour. Éls. p. 427. (1694.)

331. **Lupulus salictarius** Dodonaeus. Trium Prior. Stirp. Hist. p. 386. (1553).

*Humulus Lupulus* Linn. Sp. Pl. 1028. (1753).

Turtle Mountains, Pleasant Lake, Towner, Minot.

*CANNABIS* Dioscorides III: 157, Plinius XIX: 4, 9, XXI: 23. Tour. Éls. p. 427. (1694).

332. **Cannabis sativa** (Dioscorides) Marcellus Virgilius Comment. Diosc. p. 453. (1529).

Richland Co. (W. B. Bell.)

Family 35. **URTICEAE** Ventenat. Tabl. Reg. Veg. 524. (1794).

*URTICA* Plinius XXII: 13; Tour. Éls. p. 426. (1694).

333. **Urtica gracilis** Ait. Hort. Kew. 3:341. (1789).

Leeds, Towner.

334. **Urtica Lyallii** S. Wats. Proc. Am. Acad. X. 348. (1875). Pleasant Lake.

*LAPORTEA* Gaudich, Freyc. Voy. Bot. 498. (1826).

*Urticastrum* Moehring, Hort. Prov. (1736), also Fabricius, Enum 204. (1759). Undesirable name because built on *Urtica*.

335. **Laportea divaricata** (Linn.) Lunell.

*Urtica divaricata* Linn. Sp. Pl. 985. (1753). *Urtica canadensis* Linn. l. c. *Laportea canadensis* (Linn.) Gaudich. l. c. *Urticastrum divaricatum* (Linn.) Kuntze, Rev. Gen. Pl. 635. (1891).

Towner on the banks of Mouse River.

*ADICEA* Raf. Ann. Nat. 179. (1815).

336. **Adicea fontana** Lunell, Am. Midl. Nat. Vol. III., p. 7. (1913).

Pleasant Lake.

337. **Adicea opaca** Lunell, Am. Midl. Nat., Vol. III., p. 8. (1913.)

Pleasant Lake.

*HELXINE* Dioscorides IV: 86.

*Parietaria* Brunfels, 2. (1531): Tour. Éls. 409. (1694).

338. **Helxine pennsylvanica** (Muhl.) Nwd. in Am. Midl. Nat. Vol. III. p. 235. (1914).

*Parietaria pennsylvanica* Muhl. Willd. Sp. Pl. 4. p. 155. (1806)

Williston (O. A. Stevens); Wahpeton; Morton Co

## Order. 19. SANTALALES.

*Engler, Syllab. ed. I. p. 98. (1892).*

Family 36. **SANTALACEAE** R. Br. Prodr. p. 350. (1810).

*COMANDRA* Nuttall, Gen. I: 157. (1818).

339. **Comandra pallida** A. DC. Prodr. 14:636 (1857).

Leeds, Butte.

## Order 20. FAGOPYRINAE.

*Bartling, Ord. Nat., p. 106. (1830).*

Family 37. **POLYGONEAE** Juss. Gen. p. 22. (1787).

*ERIOGONUM* Michx. Fl. Bor. Am. I: 246. (1803).

340. **Eriogonum annuum** Nutt. Trans. Am. Phil. Soc. (II.), 5:164. (1833-37).

Pretty Rock (W. B. Bell).

341. **Eriogonum multiceps** Nees, Max. Reise N. A. 2:446. (1841).

Morton County (W. B. Bell).

342. **Eriogonum crassifolium** Benth. Trans. Soc. Linn. 17:408 (1837).

Dunsieth, Minot.

*RUMEX* Virgilius, Mov. 72: Plinius XIX: 12,60.

343. **Rumex Acetosella** Linn. Sp. Pl. 338. (1753).

Willow City, (Bottineau Co.).

*LAPATHUM* Theophrastus I: 9, 7: 2. Dioscorides II: 140, Gesner. Anguillara, etc. Tour. Els. p. 404. (1694).

344. **Lapathum venosum** (Pursh) Lunell.

*Rumex venosus* Pursh, Fl. Am. Sept. 733. (1814).

345. **Lapathum mexicanum** (Meisn.) Nwd., Am. Midl. Nat. Vol. III., p. 237. (1914).

*Rumex mexicanus* Meisner, DC. Prod. 14: 45. (1856).

*Rumex salicifolius* Hooker, Fl. Bor. Am. 2: 129. (1840).

Not. Weinm. (1821).

Leeds, Butte.

346. **Lapathum occidentale** (S. Wats.) Lunell.

*Rumex occidentalis* S. Wats. Proc. Am. Acad. 12:253. (1876).

Peninsula of Lake Ibsen, Butte.

347. **Lapathum crispum** (Linn.) Scopoli, Fl. Car. ed. 2:261. (1772).

*Rumex crispus* Linn. Pl. 335. (1753)

Leeds.

348. **Lapathum persicarioides** (Linn.) Moench, Meth., 355 (1794).

*Rumex persicarioides* Linn. Sp. Pl. 335. (1753).

Peninsula of Lake Ibsen, Butte.

- FAGOPYRUM** Lobelius Obs. 513. (1576). Dodonaeus, Pempt. 4:1: 32. (1583). Tour Els. p. 411. (1694). Gaertner (1791).

349. **Fagopyrum vulgare** Hill. Br. Herb. 486. (1756).

*Fagopyrum esculentum* Moench. Meth. p. 290. (1794).  
Leeds.

350. **Fagopyrum tataricum** (Linn.) Gaertn. Fr. et. Sem. 2:182, pl. 189, f. 6. (1791).

*Polygonum tataricum* Linn. Sp. Pl. 364. (1753).

Leeds, (extinct).

**RHEUM** Linn.

351. **Rheum Rhaponticum** Linn. Sp. Pl. 531. (1753).

Ecsaped. Devils Lake.

- PERSICARIA** J. de Manliis ex Brunfels Herb. Viv. Ic. II: 173. (1531). Tour. Els. Bot. 410. (1694).

Section **POTAMOCALLIS** Nwd. A. Midl. Nat. II: 216. (1912)

352. **Persicaria rigidula** (Sheldon) Greene in Leaflets, Vol. I, p. 24 and 29. (1904).

Presenting four phases: (a) aquatic, extremely rare; (b) semi-aquatic; (c) riparian; and (d) terrestrial, which is sterile.

Leeds, Butte.

353. **Persicaria ammophila** Greene, l. c., p. 471, and Am. Midl. Nat. Vol. II., p. 236. (1912).

Fargo (Cl. Waldron).

354. **Persicaria** sp. (terrestrial phase), Thorne (Rolette Co.).

355. **Persicaria Hartwrightii** (A. Gray) Greene in Leaflets l. c. p. 24. (1904), and in Am. Mid. Nat. II. p. 15. (1911). Riparian phase. Pleasant Lake

Section **EUPERSICARIA**.

356. **Persicaria lapathifolia** (Linn.) S. F. Gray, Nat. Arr. II, p. 270. (1821).

*Polygonum lapathifolium* Linn. Sp. Pl. 360. (1753).

Leeds.

357. **Persicaria lapathifolia nodosa** (Pers.) Lunell.

- Polygonum lapathifolium nodosum* (Pers.) Small, Mem. Torr. Bot. Club 5: 140. (1894).

*Polygonum nodosum* Pers. Syn. I: 440. (1805).



- Kulm (Brenckle).
358. **Persicaria pennsylvanica** (Linn.) Small, Fl. S. E U. S. p. 377. (1903).  
*Polygonum pennsylvanicum* Linn. Sp. Pl. 362. (1753).  
 Fargo (O. A. Stevens).
359. **Persicaria maculata** Enricius Cordus, Botanologicon. (1551).  
*Persicaria maculosa* Trew. Herb. Blackw. t. 118. (1754).  
*Polygonum Persicaria* Linn. Sp. Pl. 361. (1753).  
 Leeds, Willow Creek at Dunsieith.
360. **Persicaria tomentosa** (Schränk) Bicknell.  
*Polygonum tomentosum* Schrank, Baier. Fl. I. p. 669. (1789).  
 Leeds.
361. **Persicaria tomentosa glabrior** Lunell. var. nov.  
 Tomentum tenue, evanescens.  
 With a thin, vanishing tomentum.  
 In high grass on the dried-up bottom of Lake Ibsen, Benson Co.  
*POLYGONUM* Discorides IV: 4. Plinius XXVII: 12.  
 Tour. Els. p. 411. (1694). *Polygonum* Linn. in limited sense.
362. **Polygonum aviculare** Linn. Sp. Pl. 362. (1753).  
 Leeds, Butte, Oberon.
363. **Polygonum littorale** Link in Schrad. Journ. 1:54. (1799).  
 Leeds, Butte.
364. **Polygonum erectum** Linn. Sp. Pl. 363. (1753).  
 Leeds.
365. **Polygonum ramosissimum** Michx. Fl. Bor. Am. 1:237. (1803).  
 Leeds, Butte, Towner; Kulm (Brenckle).
366. **Polygonum ramosissimum latius** Lunell, var. nov.  
 Perviridis. Folia typo ampliora, latiora.  
 Rather green. Leaves larger and broader than the type.  
 Railroad banks, Leeds.  
*BILDERDYKIA* Dumortier, Fl. Belg. Stam. 18. (1827).
367. **Bilderdykia Convolvulus** (Linn.) Dum. l. c.  
*Polygonum Convolvulus* Linn. Sp. Pl. 364. (1753).  
 Leeds, Butte.
368. **Bilderdykia Convolvulus pumilio** Lunell, in Am. Midl. Nat. Vol. II, p. 288. (1912).  
 Leeds.
369. **Bilderdykia scandens** (Linn.) Lunell.

*Polygonum scandens* Linn. Sp. Pl. 364. (1753).

Peninsula of Lake Ibsen, Jamestown.

#### Order 21. CARYOPHYLLINEAE.

*Bartling*, Ord. Nat. p. 295, (1830), *Bart, et Wend.*, II., p. 137, (1824-5).

Family 38. **SALSOLACEAE** Linn., Classes Plantarum (1738).

*BOTRYS* Dioscorides III: 130. Plinius, Nat. Hist. XXVII:

8. 31. Bauhin, Pinax p. 138. (1623), Tour. Els. p. 406. (1694).

*Vulvaria* Dallchamps, Hist. p. 543. (1587), Bubani, Fl. Pyr. I. 174. (1897).

370. **Botrys aromatica** (Spach). Nwd. Am. Midl. Nat. Vol. III. p. 275. (1914).

*Botrydium aromaticum* Spach, Hist. p. 295. *Chenopodium Botrys* Linn. Sp. Pl. 219. (1753). *Vulvaria Botrys* (Linn.) Bubani l. c. p. 177.

Fargo (Cl. Waldron).

371. **Botrys glauca** (Linn.) Nwd. Am. Midl. Nat. Vol. III. p. 275. (1914).

*Chenopodium glaucum* Linn. Sp. Pl. 220. (1753).

Leeds, York.

372. **Botrys hybrida** (Linn.) Nwd. Am. Midl. Nat., l. c.

*Chenopodium hybridum* Linn. Sp. Pl. 219. (1753).

Peninsula of Lake Ibsen, Willow Creek, Turtle Mountains.

373. **Botrys Fremontii** (S. Wats.) Lunell.

*Chenopodium Fremontii* S. Wats. Bot. King's. Exp. 287, (1871).

Peninsula of Lake Ibsen.

374. **Botrys alba** (Linn.) Nwd. Am. Midl. Nat. l. c. 276:

*Chenopodium album* Linn. Sp. Pl. 219. (1753).

Leeds, Butte, Narrows (Ramsey Co).

375. **Botrys alba** var. **pauper** Lunell. var. nov.

Caulis simplex vel. subsimplex. Spicae florum condensatae, sessiles vel subsessiles.

Stem simple or almost branchless, with flower clusters crowded, sessile or nearly so.

Dry bottom of coulée, Leeds.

376. **Botrys pagana** (Reichenb.) Lunell.

*Chenopodium paganum* Reichenb. Fl. Germ. 579. (1830).

Leeds, Bismarck.

377. **Botrys ferulata** Lunell.

*Chenopodium ferulatum* Lunell, Am. Midl. Nat. Vol. III  
p. 345 and p. 4. (Contents). (1914).

Bismarck on the banks of the Missouri.

378. **Botrys leptophylla** (Moq.) Nwd. Am. Midl. Nat. 1. c.  
p. 275.

*Chenopodium album leptophyllum*. Moq. in D C. Prod. XIII,  
2, p. 71. (1849).

Bismarck; Dickinson (O. A. Stevens).

379. **Botrys pratericola** (Rydb.) Lunell.

*Chenopodium pratericola* Rydb. Bull. Torr. Bot. Club. 39:  
310. (1912).

Butte, Pleasant Lake, Narrows (Ramsey Co.).

380. **Botrys subglabra** (Wats.) Lunell.

*Chenopodium leptophyllum subglabrum* Wats, *Chenopodium  
subglabrum* (Wats.) A. Nels. Bot. Gaz. 34: 362. (1902).

Dickinson (L. R. Waldron).

381. **Botrys succosa** (A. Nels.) Lunell.

*Chenopodium succosum* A. Nels. Bot. Gaz. 34: 361. (1902).

Plant green, very succulent, sending out all along the stem  
straw-colored branches, which are longest and strongest at its  
base, thus arranged similarly to *B. pagana*. Stamens 5.

Leeds.

382. **Botrys rubra** (Linn.) Lunell.

*Chenopodium rubrum* Linn. Sp. Pl. 218. (1753).

The whole plant dark red, rather leathery than succulent,  
branching from the upper part of the stem like *B. alba*, Stamens 1-2.

Leeds, Minnewaukan.

[The validity of *B. succosa* has been questioned of late, the  
examinations apparently having been made on dry specimens.  
With the succulence of the former eliminated by the drying process  
and the different colors in both species changed to a dusky gray,  
common for both, their general appearance shows a similarity  
not existing in the fresh plants.]

383. **Botrys humilis** (Hooker) Lunell.

*Chenopodium rubrum humile* (Hook.) Wats. Bot. Cal. 2: 48,  
(1880).

Butte.

*MONOLEPIS* Schrad.

384. **Monolepis nuttalliana** (Roem. et Schult.). Englm. Trans. Amer. Phil. Soc. n. ser. 12:206. (1861).  
*Blitum Nuttallianum* Schult. Mant. I: 65. (1822).  
 Leeds; Pingree (Stutsman Co.).  
**ATRIPLEX** Hippokrates, Theophrastus VII: 1, Plinius, XX: 20, Columella III: 11, X: 377. Dioscorides 11: 145, Tour. Els. 405. (1694).  
 385. **Atriplex hortensis** Linn. Sp. Pl. 1053. (1753).  
 Probably an escape from former cultivation, Leeds.  
 386. **Atriplex carnosa** A. Nels. Bot. Gaz. 34:361. (1902).  
 Leeds, Minnewaukan, Towner.  
 387. **Atriplex argentea** Nutt. Gen. I:198. (1818).  
 Leeds, Bottineau.  
 388. **Atriplex canescens** (Pursh) James, Trans. Am. Phil. Soc. (II) 2:178. (1825).  
*Calligonum canescens* Pursh, Fl. Am. Sept. 370. (1814).  
 West of Missouri River.  
 389. **Atriplex Nuttallii** Wats. Proc. Am. Acad. 9:116. (1874).  
 Leeds, Brinsmade, and in the western part of the state.  
 390. **Atriplex ovata** Rydb.  
 Glen Ullin (Bergman).  
**SUCKLEYA** Gray, Proc. Am. Acad. XI, 103 (1876).  
 391. **Suckleya Suckleyana** (Torr.) Rydb. Mem. N. Y. Bot. Gard. I:133. (1900).  
*Obione Suckleyana* Torr. Pac. R. R. Rep. 12: 47. (1860).  
*Suckleya petiolaris* Gray, Proc. Am. Acad. XI: 103. (1876).  
 Belfield (O. A. Stevens).  
**EUROTIA** Adans. Fam. Pl. 2: 260. (1763).  
 392. **Eurotia lanata** (Pursh) Moq. Enum. Chenop. 81. (1840).  
*Diotis lanata* Pursh. Fl. Am. Sept. 602. (1814).  
 Hebron (Bergman).  
**KOCHIA** Roth; Schrad. Journ. Bot. I: 307, pl. 2. (1799).  
 393. **Kochia Scoparia** (Linn.) Roth; Schrad. Neues Journ. bot. 3:85 (1809).  
*Chenopodium Scoparia* Linn. Sp. Pl. 221. (1753).  
 Introduced. Jamestown, Bismarck.  
 394. **Kochia trichophylla** Host.  
 Leeds. Established almost everywhere within the incorporation.  
**CORISPERMUM** Jussieu, Act., p. 244. (1712).

395. *Corispermum simplicissimum* Lunell, in Am. Midl. Nat. Vol. I, p. 207. (1910).

On a lake shore southeast of Barton, Pierce Co.

396. *Corispermum villosum* Rydb. Bull. Torr. Bot. Club. 24:191. (1897).

Shore of Lake Ibsen (extinct); banks of the Missouri at Bismarck (Brenckle).

*SPINACEA*. *Tragus* in Brunfels, Herb. Viv. Ic. II, 159 (1531). Also Linn. Sp. Pl. 1027 (1753).

397. *Spinacea oleracea* Linn. l. c.

An occasional escape from cultivation. Leeds.

*SALICORNIA* Linn. Sp. Pl. 3. (1753).

398. *Salicornia rubra* A. Nels. Bull. Torr. Bot. Club 26. (1899).

Leeds, Mud Lake, Minnewaukan.

399. *Salicornia rubra prona* Lunell, Am. Midl. Nat. Vol. I. p. 236. (1910).

Devils Lake.

*DONDIA* Adans. Fam. Pl. 2: 261. (1763).

*Suaeda* Forsk. Fl. Aeg. Arab. 69, pl. 18b. (1775).

400. *Dondia erecta* A. Nels. Bot. Gaz. 34: 364. (1902).

*Suaeda erecta* (Wats.) A. Nels. in Coult. and Nels. New Man. Rocky Mt. Bot. 169. (1909).

*Suaeda depressa erecta* Wats. Proc. Am. Acad. 9: 90. (1874).

Leeds, Minnewaukan, Towner.

401. *Dondia depressa* (Pursh) Britt. in Britt & Brown, Illustrated Flora I: 585. (1896).

*Salsola depressa* Pursh, Fl. Am. Sept. 197. (1814).

*Suaeda depressa* S. Wats. in King's Geol. Expl. 5: 294. (1871).

Leeds, Butte, Peninsula of Lake Ibsen.

*SALSOLA* Caesalpinus [Herb. Thornab., 205: 571. (1563)].

De Plantis, p. 170. (1583).

402. *Salisola pestifer* A. Nels. in Coult & Nels., New Man. Rocky Mt. Bot. 169. (1909).

*Salsola Tragus* Am. authors, not *S. Tragus* Linn.

Leeds, and everywhere.

Family. 39. **AMARANTHOIDEAE** Vent. Tabl. II: 264. (1799).

**AXYRIS.**

403. **Axyris amaranthoides** Linn.

An asiatic weed, well established in the Turtle Mountains.  
Of late found at Leeds, Butte and Pleasant Lake.

*GALLIARIA* Bubani, Fl. Pyr. I: 184. (1897).

*Amaranthus* Tour. Els. p. 201. (1694), Linn Syst. (1735), etc.,  
not *Amaranthus* Plinius XXI: 8, 23 and ancients, this being *Celosia*  
Linn.

404. **Galliardia retroflexa** (Linn.) Nwd. Am. Midl. Nat.  
Vol. III, p. 278. (1914).

*Amaranthus retroflexus* Linn. Pl. 991. (1753).

Leeds.

405. **Galliardia blitoides** (S. Wats.) Nwd. Am. Midl. Nat. l. c.

*Amaranthus blitoides* S. Wats., Proc. Am. Acad. XII: 273,  
(1877).

Leeds.

406. **Galliardia graecizans** (Linn.) Nwd. Am. Midl. Nat. l. c.

*Amaranthus graecizans* Linn. Sp. Pl. 990. (1753).

*Amaranthus albus* Linn. Sp. Pl. 1404. (1763).

Leeds.

*ACNIDA* Mitchell, ex Linn. Act. Ups. 1741. (1746).

407. **Acnida tuberculata** Moq. in D.C. Prodr. 13, p. 2,  
278. (1849).

Fargo (Bergman).

408. **Acnida tuberculata prostata** (Uline et Bray).

*Acnida tamariscina prostata* Uline et Bray, Bot. Gaz. 20;  
158. (1895).

Leeds.

Family 40. **CORRIGIOLACEAE**. Reichenb. Moessl.  
Hand., I, 51 (1827).

*PARONYCHIA* Adans. Fam. Pl. 2: 272. (1763).

409. **Paronychia sessiflora** Nuttall, Gen. !: 160. (1818).

Minot.

Family 41. **NYCTAGINEAE** Vent. Tabl. II: 271. (1799).

*ALLIONIA* Loeffling, Iter Hispanicum 181. (1758).

*Oxybaphus* L' Her. Willd. Sp. Pl. I: 185. (1797).

410. **Allionia linearis** Pursh. Fl. Am. Sept. 2: 728. (1814).

*Oxybaphus angustifolius* (Nutt.) Sweet, Hort. Brit. I: 334  
(1826.)

Morton County (W. B. Bell.).

411. **Allionia aggregata** (Ortega). Spreng. Syst. I: 384. (1825).  
*Calymenia aggregata*, Ortega, Nov. Rar. Pl. 8: pl. 11,  
 (1798).

Butte, (?); Lisbon 1891 (Standley, Contr. U. S. Nat. Herb.  
 Vol. XII. part 8: 344. 1909).

412. **Allionia decumbens** (Nutt.) Spreng. Syst. 1. c.

*Calymenia decumbens* Nutt. Gen. I: 26. (1818).

*Oxybaphus decumbens* Sweet, Hort. Brit. 1. c.

"On high, bare, gravelly hills near Fort Mandan on the  
 Missouri" (type locality). Medora (H. L. Bolley).

413. **Allionia decumbens assurgens** Lunell. Am. Midl.  
 Nat. Vol. II, p. 123. (1911).

Pleasant Lake.

414. **Allionia nyctaginea** Michx. Fl. Bor. Am. I: 100. (1803).

*Oxybaphus nyctagineus* Sweet, Hort. Britt. I: 224. (1825).

Leeds, Devils Lake.

415. **Allionia hirsuta** Pursh, Fl. Am. Sept. 2: 728. (1814).

*Oxybaphus hirsutus* Sweet, Hort Brit. I: 334. (1825).

416. **Allionia pilosa** (Nutt.) Rydb. Bull. Torr. Bot. Club 29.  
 690. (1902).

*Calymenia pilosa* Nutt. Gen. I: 26. (1818).

Butte, Pleasant Lake, Dunsieith, Minot; Walhalla (L. R. Wal-  
 dren); Hillsboro (A. B. Lee).

417. **Allionia pilosa parva**, a depauperate form with narrow  
 leaves. Name proposed by Prof. Robinson for the variety.

418. **Allionia pilosa rotundifolia** "Seems to be a form of  
 this species. It appears to be a depauperate state." (Paul C.  
 Standley, Contr. U. S. Nat. Herb. Vol. XII, part 8: 354. (1909)).

*Allionia hirsuta rotundifolia* Lunell, in Bull Leeds Herb. no 2,  
 p. 6. (1908).

Leeds.

Family 42. **PORTULACEAE** Jussieu, Gen., p. 312. (1789).

**PORTULACCA** Plinius XX: 20. Tour. Els. p. 203. (1694).

419. **Portulacca sylvestris** Fuchs Hist. Stirp. p. 113. (1542),  
 Tragus, Matthioli, Anguillara, Dodonaeus, Camerarius, etc.

*Portulacca oleracea* var.  $\beta$ . Linn. Sp. Pl. 445. (1753).

Leeds.

420. **Portulacca grandiflora** Hook Bot. Mag. Pl. 2885. (1829).

An occasional escape. Leeds.

(To be continued.)